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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/895,788	06/29/2001	Thomas L. Stachura	42390P10773	5580
8791	7590	04/14/2005	EXAMINER	
BLAKELY SOKOLOFF TAYLOR & ZAFMAN 12400 WILSHIRE BOULEVARD SEVENTH FLOOR LOS ANGELES, CA 90025-1030			SHIFERAW, ELENI A	
			ART UNIT	PAPER NUMBER
			2136	

DATE MAILED: 04/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/895,788

Applicant(s)

STACHURA ET AL.

Examiner

Eleni A Shiferaw

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 6/29/2001.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-5, 7, 8, 10-12, 14-17, 19-21, 23-28 and 30-35 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 5, 7, 8, 10-12, 14-17, 19-21, 23-28 and 30-35 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Final rejection

1. Claims 1-5, 7, 10, 12, 14, 15, 17, 19, 20, 24-28, and 30 are pending, claims 6, 9, 13, 18, 22, and 29 are canceled, and claims 31-35 are newly added.
2. Applicant's arguments filed on June 29, 2001 have been fully considered but are not persuasive. The Examiner would like to point out that this action is made final (MPEP 706.07a).

Response to the applicant's argument

3. The applicant amends/argues that
 - a. The description of the resynchronization process that is provided in Skret is clearly different than the element of the claims.
 - b. Skret does not disclose storing a security sequence value as a resynchronization value.
 - c. Skret does not provide a request for resynchronization that includes sending at least a representation of a resynchronization value.
 - d. Trachewsky is not relevant to establishing secured communications.
 - e. The meaning of "sequence" in Trachewsky is completely different than in the claims.
 - f. Trachewsky is not concerned with any type of security sequence.
 - g. Trachewsky has no relevance to the elements of the claims, and cannot properly be combined with Skret.

h. Dixon is not relevant to the storing of a resynchronization value or the transmission of the resynchronization value in the event of desynchronization.

However, Examiner disagrees with applicant.

Regarding argument (a), the prior art record Skret Patent Number 5,001,755 teaches all the claimed invention. Skret indicates that when a receiving node determines that it is out of sequence, such as in a power down and subsequent power up by a node, the node requests resynchronization. (Skret, Col. 6 lines 7-13) Skret then indicates “the request for resynchronization must be sent in clear text since the receiver’s encrypted transmitter, which is separate, will most likely be out of synchronization as well from a power down.” (Skret, col. 6 lines 14-17) The receiving node transmits the **clear text** to the transmitting node **to indicate that the receiving node is out of sequence.** (Skret, col. 6 lines 8-11) **In response to the clear text the transmitter node transmits a current pseudorandom number in encrypted form (a current pseudorandom number is encrypted in using starting pseudorandom key). Thereafter, the pseudorandom number sequence picks up where it left off.** (Skret, col. 6 lines 18-23) **The clear text is unencrypted resynchronization number value.** Claim 1, claims requesting resynchronization of security sequence values, requesting resynchronization comprising **sending at least a “representation” of said resynchronization value** from said client device to said server device. Sending the representation of the resynchronization value is sending “clear text” because the clear text is the one who represents/indicates the receiving node when out of synchronization and according to the clear text value the transmitting node sends the **resynchronization value (“current**

pseudorandom number” which is encrypted by using starting pseudorandom key) to the receiver node in order to resynchronize the pseudorandom number sequence.

(Skret, col. 6 lines 18-23)

Regarding argument (b), the prior art of record Skret teaches storing a security sequence value as a resynchronization value. (see, Skret col. 6 lines 18-23) Skret encrypts the “current pseudorandom number” and the encrypted current pseudorandom number is sent to the receiving node in order to be resynchronized.

Regarding argument (c), Skret teaches a request for resynchronization that includes sending at least a representation of a resynchronization value. (see, Skret col. 6 lines 18-23) Skret encrypts the “current pseudorandom number” and the encrypted current pseudorandom number is sent to the receiving node in order to be resynchronized.

Regarding argument (d), Examiner did not cite Trachewsky for establishing secured communications. However Trachewsky does teach establishing secured communication and the reference is relevant to establishing secured communications. (See, Trachewsky page 4 par. 0104; the nodes are interconnected by a transmission medium and said nodes can send and receive frames of data with sequence number via a communication medium).

Regarding argument (e), The meaning of “sequence” in Trachewsky is not different than in the claims. (see, Trachewsky page 58 par. 0452, page 23-24 par. 0219, and Fig. 54; **the CSS sequence is enumerated, and each sequence has an explicit rank in an order tree structure that determines the order of frame transmission and security sequence values/numbers are used to detect lost frames/desynchronization).**

Regarding argument (f), Trachewsky is concerned with security sequence. (see, Trachewsky page 23-24 par. 0219 and fig. 54; using security sequence values/numbers to detect lost frames/desynchronization. If the received sequence number of the received frame is out of sequence, the channel state may be reset).

Regarding argument (g), sufficient motivation was provided, to combine Trachewsky with Skret, on the first office action.

Regarding argument (h), Examiner did not cite reference Dixon for storing of a resynchronization value or the transmission of the resynchronization value in the event of desynchronization, Instead Examiner cited Dixon for anti-replay filtering.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1, 3-4, 20-21, 23, 25-28, and 30-32 are rejected under 35 U.S.C. 102(b) as being anticipated by Skret (US Patent Number: 5,001,755).

As per claims 1 and 31, Skret teaches a method/machine-readable medium comprising:

establishing secured communication between a client device and a server device, wherein communication is secured using, at least in part, a plurality of synchronized

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security sequence values (Skret Col. 2 lines 57-col. 3 lines 11, and col. 5 lines 68-col. 6 lines 1, col. 2 lines 18-27; new number is produced and incremented and transmitting nodes are synchronized and the synchronized communication is secured by number values/ security sequence values);

storing a security sequence value from the plurality of synchronized security sequence values as a resynchronization value (Skret page 6 par. 7-26; storing security sequence value in clear text, where in the clear text is a number/value (unencrypted security sequence value) from the **plurality of synchronized security sequence values** as a resynchronization value. See page 2 lines 16-27 for plurality of synchronized security sequence values. New number for each transmission is produced and incremented during synchronization and if synchronization is lost due to power or other reasons, a resynchronization mechanism is provided to realign the pseudorandom number generators);

detecting at least one event desynchronizing said secured communication (Skret Col. 2 lines 10-27); and

requesting resynchronization of security sequence values (Skret Col. 6 liens 7-17; sending a message to the transmitting node indicating that it is out of synchronization and requesting resynchronization), requesting resynchronization comprising sending at least a representation of said resynchronization value from said client device to said server device (Skret Col. 6 lines 7-lines 26; sequence value is a number value in clear text/unencrypted representing the resynchronization value and according to the request made in clear text, the nodes are resynchronized).

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As per claim 20, Skret teaches a method comprising:

establishing secured communication between a security interface and a network node (Skret Col. 2 lines 10-27; receiving node is synchronized with the transmitting node), said security interface to resynchronize security sequence values between said security interface and said network node (Skret Col. 2 lines 10-27; a mechanism for resynchronizing two nodes);

storing a first resynchronization value selected by said security interface (Skret Col. 5 lines 42-col. 6 lines 26); and

resynchronizing said security sequence values after a break in said secured communication (Skret Col. 2 lines 10-27; resynchronizing mechanism is provided to resynchronize when synchronization is lost due to the loss of power or other reason), said resynchronizing comprising:

sending said first resynchronization value from said security interface to said network node (Skret Col. 6 lines 18-26; transmitting resynchronization key between two nodes);

sending said first resynchronization value and a second resynchronization value from said network node to said security interface (Skret Col. 6 lines 18-26; transmitting resynchronization key between two nodes, and new transmitting key may vary from the starting key); and

reestablishing said secured communication using said first resynchronization value and said second resynchronization value (Skret Col. 2 lines 10-27 reestablishing mechanism to establish secure communication between two devices when synchronization is lost due to power).

As per claim 28, Skret teaches a method, comprising:

establishing secured communication between a server device and a client device (Skret Col. 5 lines 42-col. 6 lines 2; two devices are simultaneously initiate communication with each other), said secured communication using server a plurality of security sequence values synchronized with a plurality of client security sequence values (Skret Col. 7 lines 1-7 and see page 2 lines 16-27; for plurality of synchronized security sequence values. New number for each transmission is produced and incremented during synchronization and if synchronization is lost due to power or other reasons, a resynchronization mechanism is provided to realign the pseudorandom number generators);

storing at least one client security sequence value in nonvolatile memory as a saved client security sequence value (Skret Col. 6 lines 42-col. 7 lines 2; sequence counts are stored in RAM); and

resynchronizing server and client security sequence values after a desynchronization event, resynchronizing including sending said saved client security sequence value from said nonvolatile memory to said server device and server device to said client device in a data packet with a server security sequence value (Skret Col. 2 lines 10-27 and col. 6 lines 18-26; reestablishing/resynchronizing mechanism establishes secure communication between two devices when synchronization is lost due to power by sending the current pseudorandom number or key that represents security sequence value in encrypted form to the receiver device).

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As per claim 3, Skret teaches the method, wherein sending at least a representation of said resynchronization value includes embedding said resynchronization value in a header of a data packet, a payload of a data packet, both (Skret Fig. 3A-3D).

As per claims 4 and 32, Skret teaches the method/medium, further comprising periodically refreshing the stored synchronization value with a new value at a selected interval from security sequence values already used in a secured communication session (Skret Col. 4 lines 48-59).

As per claim 21, Skret teaches a method, further comprising using a security interface as a state machine in network circuitry (Skret Col. 1 lines 11-24).

As per claim 23, Skret teaches the method, further comprising storing said first resynchronization value in a nonvolatile storage medium (Skret Col. 6 lines 1-2).

As per claim 25, Skret teaches the method, wherein reestablishing the secured communication comprises resynchronizing said secured communication using said first resynchronization value to resynchronize secured data sent from said security interface and using said second resynchronization value to resynchronize secured data sent from said network node (Skret Col. 2 lines 10-27, and col. 6 lines 18-26).

As per claim 26, Skret teaches the method, further comprising resynchronizing the secured communication during a low-power state (Skret Col. 2 lines 10-27).

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As per claim 27, Skret teaches the method, further comprising resynchronizing the secured communication while said network node lacks an active operating system and/or lacks an active microprocessor (Skret Col. 2 lines 10-27; loss of power or other reasons).

As per claim 30, Skret teaches the method, said storing further comprising periodically refreshing said saved client security sequence value with a later security sequence value (Skret Col 4 lines 48-59, and Col. 6 lines 18-26).

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 5, 7-8, 11-12, 14-17, 19 and 33-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Skret (US Patent Number: 5,001,755) in view of Trachewsky et al. (Trachewsky, Pub. No.: US 2003/0206559 A1).

As per claims 5 and 33, Skret teaches a method/machine-readable medium comprising:

establishing secured communication between a client device and server device, wherein communication is secured using, at least in part, a plurality of synchronized

security sequence value(s) (Skret Col. 2 lines 57-col. 3 lines 11, and col. 5 lines 68-col. 6 lines 1, col. 2 lines 18-27; new number is produced and incremented and transmitting nodes are synchronized and the synchronized communication is secured by number values/ security sequence values);

receiving a request for resynchronization from the client device, the request including at least a representation of a client resynchronization value, the client resynchronization value being a stored synchronized security value of the plurality of synchronized security sequence values (Skret page 6 par. 7-26; storing security sequence value in clear text, where in the clear text is a number/value (unencrypted security sequence value) from the **plurality of synchronized security sequence values** as a resynchronization value. See page 2 lines 16-27 for plurality of synchronized security sequence values. New number for each transmission is produced and incremented during synchronization and if synchronization is lost due to power or other reasons, a resynchronization mechanism is provided to realign the pseudorandom number generators);

sending the representation of resynchronization value and at least a representation of a server resynchronization value from said server device to said client device (Skret Col. 6 lines 7-lines 26, Fig. 3A); and

reestablishing secured communication using said client resynchronization value and server resynchronization value (Skret Col. 2 lines 10-27 reestablishing mechanism to establish secure communication between two devices when synchronization is lost due to power);

Skret does not explicitly teach acknowledging a client request for resynchronization,

However Trachewsky discloses acknowledging a client request in using sequence value (Trachewsky Page 60 par. 0458);

Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to employ the teachings of Trachewsky with in the system of Skret because it would allow to verify the acknowledgment of a sequence to other nodes (Trachewsky Page 59 par. 0454) Therefore it would have been obvious to one having ordinary skill in the art at the time of the invention was made to acknowledge a client request for resynchronization because it would verify a client that the communication is resynchronized securely after desynchronization event occur when power loss.

As per claim 14, Skret teaches an apparatus, comprising;

(a) a security interface to engage in secured communication with at least one network node, wherein said security interface and said at least one network node use a plurality of synchronized security sequence values at least in part to authenticate said secured communication (Skret Col. 2 lines 10-25);

(i) a recorder to store at least one security sequence value (Skret col. 6 lines 1-2);

(ii) a desynchronization detector coupled to said security interface (Skret Col. 2 lines 10-27; desynchronization is detected due to the loss of power);

(iii) a resynchronization requester to send the stored security sequence value to at least one network node after a desynchronization (Skret Col. 6 lines 7-lines 26; resynchronization request transmitted over a secure network between two devices); and

(b) a security agent coupled to said at least one network node (Skret Col. 1 lines 41-51; data communication network techniques to a security system), comprising:

(i) a request receiver to recognize said stored security sequence value (Skret Col. 6 lines 18-27; request for resynchronization is received);

Skret does not explicitly teach verifier to receive feedback from said at least one network node;

(ii) an acknowledger to send said feedback from said security agent to said security interface; said feedback comprising said stored security sequence value and a node security sequence value from said network node.

However Trachewsky discloses acknowledging a client request in using sequence value that reads on verifying to receive feedback from said at least one network node (Trachewsky Page 60 par. 458);

(ii) an acknowledger to send said feedback from said security agent to said security interface; said feedback comprising said stored security sequence value and a node security sequence value from said network node (Trachewsky Page 60 par. 458);

Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to employ the teachings of Trachewsky with in the system of Skret because it would allow to verify the acknowledgment of a sequence to other nodes (Trachewsky Page 59 par. 0454) Therefore it would have been obvious to one having ordinary skill in the art at the time of the invention was made to acknowledge a client request for resynchronization because it would verify a client that the communication is resynchronized securely after desynchronization event occur when power loss.

As per claim 17, Skret teaches a computer network security sequence value resynchronizer, comprising:

(a) a sender having at least access to a nonvolatile random access memory (Skret Col. 4 lines 47-59);

(b) said sender to transmit a request for resynchronization, the request including a data packet containing at least in part a stored sender resynchronization value from said nonvolatile random access memory over said computer network (Skret Fig. 3A, and Col. 9 lines 21-43); and

computer network to receive said sender resynchronization value from said sender (Skret Col. 13 lines 57-60); and returning said sender resynchronization value to said sender as security assurance (Skret Col. 13 lines 57-60);

Skret does not explicitly teach (c) an acknowledger connected to said computer network to receive said sender resynchronization value from said sender (Trachewsky

Page 60 par. 458); said acknowledger returning said sender resynchronization value to said sender as security assurance (Trachewsky Page 60 par. 458);

Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to employ the teachings of Trachewsky with in the system of Skret because it would allow to verify the acknowledgment of a sequence to other nodes (Trachewsky Page 59 par. 0454) Therefore it would have been obvious to one having ordinary skill in the art at the time of the invention was made to acknowledge a client request for resynchronization because it would verify a client that the communication is resynchronized securely after desynchronization event occur when power loss.

As per claim 7, Skret and Trachewsky teach all the subject matter as described above. In addition Skret teaches a method, wherein sending at least a representation of said client and said server resynchronization values includes embedding said client and said server resynchronization values in at least one header, payload, or both of a data packet that conforms to IP sec (Internet Protocol Security) standards (Skret Fig. 3A-3D).

As per claim 8, Skret and Trachewsky teach all the subject matter as described above. In addition Skret teaches a method, further comprising performing said method using a state machine in network circuitry (Skret Col. 1 lines 11-24).

As per claims 11 and 34, Skret and Trachewsky teach all the subject matter as described

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above. In addition Skret teaches method/medium, further comprising reestablishing secured communication during a low-power state (Skret Col. 2 lines 10-27).

As per claims 12 and 35, Skret and Trachewsky teach all the subject matter as described above. In addition Skret teaches the method/medium, further comprising reestablishing secured communication while said client device lacks an active operating system, lacks an active microprocessor, or both (Skret Col. 2 lines 10-27; loss of power or other reasons).

As per claim 15, Skret and Trachewsky teach all the subject matter as described above. In addition Skret teaches the apparatus, wherein the stored security sequence value and the node security sequence value are embedded in at least one header, at least one payload, or both of a data packet that conforms to one or more IPsec (Internet Protocol Security) standards (Skret Fig. 3A-3D).

As per claim 16, Skret and Trachewsky teach all the subject matter as described above. In addition Skret teaches the apparatus, wherein said stored security sequence value is periodically refreshed with a value at a selected interval from security sequence values already used in a secured communication session (Skret Col. 4 lines 48-59).

As per claim 19, Skret and Trachewsky teach all the subject matter as described above. In addition Trachewsky teaches the resynchronizer, wherein at least one sender and at least one acknowledger are installed on any combination of a server and a client device in a

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network (Trachewsky Page 60 par. 0458). The rationale for combining are the same as claim 17 above.

8. Claims 2, 10, and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Skret (US Patent Number: 5,001,755) in view of Trachewsky et al. (Trachewsky, Pub. No.: US 2003/0206559 A1), and in further view of Dixon et al. (Dixon, US Patent No. 6,697,857 B1).

As per claim 2 and 10, Skret and Trachewsky teach all the subject matter as described above.

Skret and Trachewsky do not explicitly teach performing anti-replay filtering;

However Dixon teaches a method, further comprising performing anti-replay filtering using said security sequence values (Dixon Col. 1 lines 28-41);

Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to employ the teachings of Dixon with in the combination system of Skret and Trachewsky because it would allow to operate at the network layer to secure most types of IP packets (Dixon Col. 1 lines 28-40); Therefore it would have been obvious to one having ordinary skill in the art at the time of the invention was made to apply the teachings of Dixon because it would ignore the data packets that have been previously received.

As per claim 24, Skret and Trachewsky teach all the subject matter as described above.

Skret and Trachewsky do not explicitly teach IPsec,

However Dixon discloses a method further comprising establishing secured communication using IPsec (Internet Protocol Security) standards (Dixon Col. 1 lines 27-41).

Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to employ the teachings of Dixon with in the combination system of Skret and Trachewsky because it would allow to operate at the network layer to secure most types of IP packets, and the authentication header would provide data communication with source authentication and integrity, while the encapsulated security payload provides confidentiality as well as a limited degree of source authentication (Dixon Col. 1 lines 28-40); Therefore it would have been obvious to one having ordinary skilled in the art at the time of the invention was made to apply the teachings of Dixon because it would authenticate the integrity of data transmitted between two nodes.

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.


10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eleni A Shiferaw whose telephone number is 571-272-3867. The examiner can normally be reached on Mon-Fri 8:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz R Sheikh can be reached on 571-272-3795. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Eleni Shiferaw

Art Unit 2136
April 6, 2005


AYAZ SHEIKH
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